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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/697,124	10/31/2003	Yoshiyuki Fukumoto	Q78162	8462
23373 SUGHRUE MI	7590 06/04/2007 ON, PLLC		EXAMINER	
2100 PENNSYLVANIA AVENUE, N.W.			EVANS, JEFFERSON A	
	SUITE 800 WASHINGTON, DC 20037		ART UNIT	PAPER NUMBER
			2627	
•			MAIL DATE	DELIVERY MODE
			06/04/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

 		Application No.	Applicant(s)			
Office Action Summary		10/697,124	FUKUMOTO ET AL.			
		Examiner	Art Unit			
		Jefferson Evans	2627			
Period fo	The MAILING DATE of this communication app	ears on the cover sheet with the c	orrespondence address			
	• •	/ IS SET TO EVOIDE 2 MONTH/	S) OB THIRTY (20) DAVS			
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1)⊠	Responsive to communication(s) filed on 19 March 2007.					
·	This action is FINAL . 2b)⊠ This action is non-final.					
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Dispositi	ion of Claims					
4)⊠	4)⊠ Claim(s) <u>1-4 and 15-50</u> is/are pending in the application.					
	4a) Of the above claim(s) <u>15-50</u> is/are withdrawn from consideration.					
· · · · · · · · · · · · · · · · · · ·	5) Claim(s) <u>2-4</u> is/are allowed.					
·	Claim(s) 1 is/are rejected.		•			
7	Claim(s) is/are objected to.	r alaction requirement				
8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9)☐ The specification is objected to by the Examiner.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 4) Interview Summary (PTO-413) 2 Paper No(s)/Mail Date						
3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 5) Notice of Informal Patent Application 6) Other:						
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Claims 1-4 and 15-50 are pending.

Claims 15 to 50 have been withdrawn from consideration.

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent; published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 2. Claims 1 are rejected under 35 U.S.C. 102(e) as being anticipated by Seyyedy et al (2003/0179601). Seyyedy discloses a magnetoresistance device comprising: a magnetoresistance element including: a free ferromagnetic layer (172) having reversible spontaneous magnetization, a fixed ferromagnetic layer (168) having fixed spontaneous magnetization, and a tunnel dielectric layer (170) disposed between said free and fixed ferroelectric layer; a non-magnetic conductor (156) providing electrical connection between said magnetoresistance element to another element; and a diffusion barrier structure (160) disposed between said conductor and said magnetoresistance element, wherein said diffusion barrier structure is made of material selected from the group consisting of TiN and ZrN (paragraph 0033).

Allowable Subject Matter

3. Claims 2 to 4 are allowed.

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4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jefferson Evans whose telephone number is 571-272-7574. The examiner can normally be reached on Increased Flextime.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hoa Thi Nguyen can be reached on 571-272-7579. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

JAE

5/30/2007

Jefferson Evans Primary Examiner Art Unit 2627

JEFFERSON EVANS PRIMARY EXAMINER